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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/656,829	09/05/2003	Hidehiko Sekizawa	S1459.70062US00	8415
7590 08/26/2004			EXAMINER	
Randy J. Pritzker			CHANG, AUDREY Y	
Wolf, Greenfield & Sacks, P.C. 600 Atlantic Avenue			ART UNIT	PAPER NUMBER
Boston, MA 02210			2872	

DATE MAILED: 08/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(a)				
	Application No.	Applicant(s)				
Office Action Summers	10/656,829	SEKIZAWA ET AL.	SEKIZAWA ET AL.			
Office Action Summary	Examiner	Art Unit	X			
	Audrey Y. Chang	2872				
The MAILING DATE of this communication Period for Reply	n appears on the cover sheet	with the correspondence add	ress			
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory properties to reply within the set or extended period for reply will, by a Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may n. a reply within the statutory minimum of the critical apply and will expire SIX (6) Mistatute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this con ABANDONED (35 U.S.C. § 133).	nmunication.			
Status						
1) Responsive to communication(s) filed on	27 February 2004.					
2a) This action is FINAL . 2b) ⊠	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) ☐ Claim(s) 1-9 is/are pending in the applicat 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-9 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction a	ndrawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Exa	miner.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the control of the control	·	** '				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 2/27/2004.	Paper N	w Summary (PTO-413) lo(s)/Mail Date of Informal Patent Application (PTO- 	.152)			

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DETAILED ACTION

Remark

- This office Action is in response to applicant's preliminary amendment filed on February 27,
 2004 which has been entered into the file.
- By this amendment, the applicant has amended claims 1-2 and 5-6.
- Claims 1-9 remain pending in this application.

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: the polarized light separation means, the first and second polarization direction changing means. Claims 1 and 5 recite that "the second polarization direction changing means adhered to a second face opposite to the first face of the polarized light separation means" which makes the polarizing eyeglass device NOT workable. If the polarization direction changing means is placed after the light passes through the polarized light separation means (which generally is a polarizer), it really contributes no effect to the viewing selection. It is known that the polarization direction changing means is provided to change the direction of certain polarized light to be aligned with the polarized light selection means in order for the selected light to pass through to the observer. If the polarized light has already passed through the polarized light separation means, what is the point of changing its polarization direction afterwards? The scopes of the claims particularly concerning the second polarization direction

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changing means and its logical cooperation with respect to other elements in the device are not clear and confusing.

The specification and the claims also fail to teach how could the reversing of the first and second polarization direction changing means leftwardly and rightwardly or forwardly and backwardly will make the device operable. Change order and location of the polarized light separating means and the polarization direction changing means, will change the polarization states of the image light which may make the eyeglasses not workable.

Clarifications are required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 3-4, 5 and 7-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over the patent issued to PCT publication by Rosencwaig (WO 95/00872).

Rosencwaig teaches a *polarizing eyeglasses* having a pair of lenses (140, and 146, Figure 4), that is used in *stereoscopic vision system* having an *image display screen* (130) that is compressed of plurality of pixels (126 and 128) that alternatively displaying parallax image information for right eye (pixels 126) and left eye (pixels 128) respectively. Rosencwaig teaches that the stereoscopic vision system further comprises a *polarizing plate* (132) placed in front of the display screen and a *birefringent retarder* (134) serves as the *phase difference plate* placed in front of the polarizing plate at the *positions* corresponding to the pixels element of (126), that are the pixel elements for displaying image information intended only for one eye, (such as right eye). The birefringent retarder has the function of *rotating* or *changing* the

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polarization direction of the image light from pixel elements (126). Rosencwaig teaches that the polarizing eyeglasses is worn by the observer to enable stereoscopic viewing, (which means that only right eye image light reaches right eye and only left eye image light reaches left eye). The polarizing eyeglasses comprises two lenses (140 and 146) that includes a *polarizer* (144 and 148) serves as the *polarized light separating means* that will only allow image light having the corrected polarization state to pass. The polarizing eyeglasses further comprises a *birefringent retarder* (142), placed at the first face of the polarized light separating means, serves as the *first polarization direction changing means* to change the polarization direction of the image light intended for the left eye so that the image light has the same polarization direction as compared to the polarized light separating means, (please see Figure 4, the abstract and pages 7-9). The polarizing eyeglass therefore allows only the right eye image light to reach the right eye and the left eye image light to reach left eye.

This reference has met all the limitations of the claims with the exception that it does not teach explicitly to include a second polarization direction changing means that is placed at *opposite face* of the polarized light separating means. However the claims **fail** to provide logical relationship as how does the second polarization direction changing means cooperate with other elements in the claims to make the device operable. That is to say the scopes concerning this element is not clear and is indefinite. This therefore makes impossible for the examiner to address this feature. Since the second polarization direction changing means DOES NOT effect the function of the polarizing eyeglasses in viewing the stereoscopic vision, it would have been obvious matters of design choice to one skilled in the art to add additional optical element that DOES NOT effect the function as wish.

With regard to claims 3-4 and 7-8, it is implicitly true that the polarizing eyeglasses could be moved leftwardly/rightwardly or forwardly/backwardly by the hands of the observer.

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5. Claims 2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over PCT publication of Rosencwaig as applied to claims 1 and 5 above, and further in view of the patent issued to Matsuda (PN. 4,989,967).

The polarizing eyeglasses utilized in a stereoscopic vision system taught by Rosencwaig as described for claims 1 and 5 above has met all the limitations of the claims. This reference however does not teach explicitly to use a pair of protective layers to cover the polarized light separation means and the polarization direction changing means. However it is very common knowledge in the art to use protective layer to cover the lenses of the eyeglasses as demonstrated by the teachings of Matsuda wherein a protective layer (1a, Figures 1b and 4) is used to coat the lens element. It would then have been obvious to one skilled in the art to use protective layers to coat the polarizing eyeglasses for the benefit of protecting it from environmental damages.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Audrey Y. Chang whose telephone number is 571-272-2309. The examiner can normally be reached on Monday-Friday (8:00-4:30), alternative Mondays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Drew Dunn can be reached on 571-272-2312. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

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